

GLOBAL ACADEMY OF TECHNOLOGY, BENGALURU

(An Autonomous Institute, affiliated to VTU, Belagavi)

U S N									
-------	--	--	--	--	--	--	--	--	--

Fifth Semester B.E. Degree Supplementary Examination, September - 2025

Research Methodology and IPR

Time: 3 hrs.

Max. Marks: 100

Note: Answer any Five full questions, choosing ONE full question from each module.

		Marks	CO's / Blooms Level
<u>Module - 1</u>			
1	a. Briefly describe the different steps involved in a research process.	10	CO1/L2
	b. Explain the different criteria for selecting the research problem	10	CO1/L2
OR			
2	a. Explain problems encountered by researchers in India.	10	CO1/L2
	b. Explain in detail techniques involved in defining a research problem.	10	CO1/L2
<u>Module - 2</u>			
3	a. Discuss the role and importance of a literature review in the research process.	10	CO1/L2
	b. Differentiate between exploratory, descriptive, and experimental research designs.	10	CO2/L2
OR			
4	a. Describe the development of theoretical and conceptual framework in literature review	10	CO1/L2
	b. Explain informal experimental designs briefly.	10	CO2/L2
<u>Module - 3</u>			
5	a. What are the criteria for selecting an appropriate sampling procedure?	10	CO2/L2
	b. Differentiate between sampling errors and non-sampling errors in the data analysis phase of the research work.	10	CO2/L2
OR			
6	a. Explain any two primary methods of data collection?	10	CO2/L2
	b. Describe contact method. Briefly explain its types with example.	10	CO2/L2
<u>Module - 4</u>			
7	a. Describe the steps a researcher should follow to test a hypothesis	10	CO3/L2
	b. Explain different steps involved in writing report.	10	CO4/L2
OR			
8	a. Explain the following with example	10	CO3/L2
	i. Simple hypothesis		
	ii. Composite hypothesis		
	iii. Null hypothesis		
	iv. Alternative hypothesis.		
	b. Describe the layout of a research report.	10	CO4/L2
<u>Module - 5</u>			
9	a. Define the term patent and what are the conditions that must be met for obtaining patent protection?	10	CO4/L2
	b. Using a flowchart, explain the steps involved in the process of Trademarks Registration.	10	CO4/L2
OR			
10	a. Explain the major steps involved in the process of filling patent applications using a flow chart.	10	CO4/L2
	b. Define Intellectual Property Rights (IPR). List and explain the different kinds of IPR.	10	CO4/L2

* * * * *

